

Datasheet: MCA497A700

BATCH NUMBER 1014

Description:	RAT ANTI MOUSE F4/80:Alexa Fluor® 700			
Specificity:	F4/80			
Format:	ALEXA FLUOR® 700			
Product Type:	Monoclonal Antibody			
Clone:	CI:A3-1			
Isotype:	lgG2b			
Quantity:	100 TESTS/1ml			

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry				Neat - 1/10

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. The suggested working dilution is given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Mouse			
roduct Form	Purified IgG conjugated to Alexa Fluor® 700 - liquid			
ax Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm	
	Alexa Fluor®700	702	723	
eparation	Purified IgG prepared supernatant.	by affinity chromatog	raphy on Protein G	
fer Solution	Phosphate buffered s	aline		
servative	0.09% Sodium Azide			
abilisers	1% Bovine Serum	Albumin		
pprox. Protein oncentrations	IgG concentration 0.0	05 mg/ml		

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Thioglycollate stimulated peritoneal macrophages from C57BL/6 mice.

External Database

Links

UniProt:

Q61549 Related reagents

Entrez Gene:

13733 Emr1 Related reagents

Synonyms

Gpf480

RRID

AB_844537

Fusion Partners

Spleen cells from immunised HOB2 rats were fused with cells of the mouse NS1 myeloma cell line.

Specificity

Rat anti mouse F4/80 antibody, clone CI:A3-1 recognizes the <u>murine F4/80 antigen</u>, a ~160 kDa cell surface glycoprotein member of the EGF-TM7 family of proteins which shares 68% overall amino acid identity with human EGF module-containing mucin-like hormone receptor 1 (EMR1).

Expression of F4/80 is heterogeneous and is modulated during macrophage maturation and activation. The F4/80 antigen is expressed on a wide range of mature tissue macrophages including Kupffer cells, Langerhans cells, microglia, macrophages located in the gut lamina propria, peritoneal cavity, lung, thymus, bone marrow stroma and macrophages in the red pulp of the spleen (Hume, et al. 1984). F4/80 antigen is also expressed on a subpopulation of dendritic cells but is absent from macrophages located in T cell areas of the spleen and lymph node (Gordon, et al. 1994). The ligands and biological functions of the F4/80 antigen have not been fully determined but a role for F4/80 in the generation of efferent CD8+ve regulatory T cells is proposed (Lin, et al. 2005)

Rat anti mouse F4/80 antibody, clone Cl:A3-1 modulates cytokine levels released in response to *Listeria monocytogenes* (Warschkau & Kiderlen, 1999).

A Human anti-idiotypic CI:A31 antibody, clone 17867 (<u>HCA154</u>) which binds to and blocks activity of Rat anti mouse F4/80 antibody, clone CI:A3-1 is also available for use as a control in experiments utilizing clone A3-1.

Flow Cytometry

Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.

References

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Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of despatch

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA497A700 10041

Regulatory

For research purposes only

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Recommended Useful Reagents

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